RESEARCH REPORT

From: Theodor H. Nelson

To: J.C. Lilly

15 September 1962

Since beginning work, I have been acquainting myself with the animals at the laboratory, and studying the fundamentals of electronics, as outlined. I have also done some collateral reading in the library.

TN

FORM L1-2397½ LONG OFFICE SUPPLY CO. — MIAMI

DEPARTMENTAL CORRESPONDENCE

DATE 17 September 1962

SUBJECT Research Report 9/15/62

TO T. H. Nelson DEP'T

FROM J. C. Lilly, M.D. DEP'T

The attached research report is too brief. Please give details.

jcl.

T.N.

RESEARCH REPORT

To: J.C. Lilly

From: Theodor H. Nelson

15 September 1962

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T.H.N.

RECEIVED
JOHNS HOPKINS UNIVERSITY
INSTITUTE
OF
MEDICAL RESEARCH

Research Report

15 September 1962
Revised 26 September
(Covering 1-15 September)

To: John C. Lilly

From: Theodor H. Nelson

During the period covered I have been acquainting myself with the animals, feeding Elvar, Cheechee, Sissy, the Young Male, the Old Bull, the Mother and the Baby. I discovered the Old Bull's death, and participated in his removal, dismemberment and consignment to storage, a participation which had to be repeated for the Young Male. I have also helped with the straightening exercises on the Mother.

I have reread Lilly, Man and Dolphin (except the Appendices,) and Kellogg, Porpoises and Sonar. I have also read the following articles in the library: Barnard, "South African Whales and Dolphins;" Berry, "How to Ride a Wave;" Brown and Norris, "Observations of Captive and Wild Cetaceans;" and LaGorce, "Marineland, Florida's Giant Fish Bowl."

I have also proceeded with the readings in electronics, as outlined, getting through page 31 of The Radio Amateur's Handbook, albeit with less than complete grasp. I have supplemented this with the Hughes and Pipe Tutortext, Introduction to Electronics, through page 212.

I am disappointed in the near impossibility of getting to the library for any useful period of time. It is also nearly impossible to read in the Dry Room, and (because I lack a key to the other side) dubious to try crossing over to study. I hope some accommodation can be found which will enable me to acquire a useful background with less delay.

T.H.N.

T.B.D.

NOT SENT

MEMORANDUM 23 September 1962

To: J.C. Lilly From: T.H. Nelson

The revision of my first biweekly report has been delayed by my inability to reach the library and ascertain what it was I read there, since I took no notes.

T.H.N.

MEMORANDUM

23 September 1952

To: A.C. Lilly

From: T.R. Nelson

The revision of my first biweekly report has been delayed by my inability to reach the library and ascertain what it was I read there, since I took no notes.

T.R.N.

Biweekly Report 1 October 1962

To: J.C. Lilly From: T.H. Nelson

Early in the period covered I was assigned two animals, the Mother and Baby, for my care, feeding and special attention. Since then I have fed them and watched them rather closely, participated in the straightening exercises on the Mother, and (due to his recent illness) the series of three prophylactic injections for the Baby.

I have continued with the assigned work in electronics, proceeding to date only as far as p. 46 in The Radio Amateur's Handbook, but with considerably better grasp than last reported. I have also read the Appendices to Lilly, Man and Dolphin; Griffin, Echoes of Bats and Men; and the following articles: Schevill and Lawrence, "Underwater Listening to the White Porpoise (Delphinapterus Leucas)", "High-Frequency Auditory Response of a Bottlenose Porpoise, Tursiops Truncatus (Montagu)", "Food-finding by a Captive Porpoise (Tursiops Truncatus,)" "Auditory Response of a Bottlenosed Porpoise, Tursiops Truncatus, to Frequencies above 100 kc;" Lawrence and Schevill, "Tursiops as an Experimental Subject;" Schevill and Backus, "Daily Patrol of a Megaptera," Schevill and McBride, "Evidence for Echolocation by Cetaceans," and Worthington and Schevill, "Underwater Sounds heard from Sperm Whales."

I also participated in last Saturday's dissection of the head of the Old Bull.

Biweekly Report 1 October 1962

To: J.C. Lilly From: T.R. Nelson

Semi-Monthly Report 15 October 1962

To: John C. Lilly From: Theodor H. Nelson

During the period covered I have done the following reading: Alpers, A Book of Dolphins; Bergeijk et al., Waves and the Ear, Chapters 1-3. I have also completed the Hughes and Pipe Tutortext, Introduction to Electronics.

I have also given considerable attention to the Mother and Baby, performing most of their feedings, and participating in the straightening of the Mother and the temperature-taking of both animals.

As far as I can tell, the worse phase of the Baby's erysipelas is past. The skin eruptions remain, but in appetite and energy he is quite recovered. The Mother does not seem to me to have improved much from the straightening exercises. She spends most of her time bent to 90° or an acute angle. While we are able to force her nearly straight in the plexiglas tank, and sometimes her muscles relax somewhat, these improvements appear to be of no duration. If her bend is voluntary, to avoid pain, the exercises have not taken that pain away; if they are due to involuntary contraction, that still takes place, and if it is a combination of voluntary and involuntary bend, the resultant is undiminished.

Furthermore, the mood of these two animals has changed considerably in the last month. They are frequently aggressive to humans now, regularly snapping and snarling as a gesture, and, on one occasion, actually trying to bite. The regular handling of the animals to their discomfort appears to be seriously alienating them.

T.H.N.

1 November 1962
~~15 October 1962~~

Semi-Monthly Report

To: John C. Lilly

From: Theodor H. Nelson

During the period covered I have read, and taken notes on, 35 articles in "Cetacean References A-R," finishing that volume (although I ask courtesy in counting the Pouchet article, in French.) I have also finished Bergeijk et al., Waves and the Ear, and read these other articles: Rensch, "The Intelligence of Elephants" (Sci. Am. '57,) Lilly and Schulke, "Can the Dolphin Learn to Talk?" (LIFE '61,) Hawkins, "Design for a Mind" (Daedalus '62,) and Essapian, "Courtship in Captive Saddle-Backed Porpoises..." (Zeitsch. f. Saugetierkunde '62.)

On the Mother and Baby: Both animals appear healthy, despite his pimples, which are fading, and her chronic bend. Since we stopped catching Mother and Baby their mood has changed enormously. As of the lastm week, I have been able to pet them often withw only occasional complaint. In fact, occasional spontaneous vocalizations in air from Baby seem to connote pleasure. However, there is still a risk of being bitten. The two animals are amazingly competitive for petting as well as fish, each threatening me with teeth when I pet the other to his exclusion.

T. H. Nelson

[submitted in triplicate]

Semi-Monthly Report 15 November 1962

To: John C. Lilly From: Theodor H. Nelson

I was at the Institute only for the first nine days of this period. During that time I read about half of the cetacean section of the Norman and Fraser Handbook and familiarized myself with the cetacean section of Hall and Kelson, Mammals of North America.

I continued feeding Mother and Baby, and spent an additional fortyfive minutes to an hour a day keeping them company. Since they were moved to the downstairs pool there has been friction with Sissy, who constantly blocks feeding and frustrates petting them.

T.H.N.

[submitted in triplicate]

Semi-Monthly Report 1 December 1962

To: John C. Lilly From: Theodor H. Nelson

I was away except for the last day of the period covered.

On returning, I found two points of interest in my two animals. One was Baby's considerable growth, seemingly a matter of several inches of length and much filling-out. The other was the difficulty that Mother and Baby were having with Sissy, still in the same tank with them. Sissy would drift so as to block my access to them for feeding and petting, even when Chuck ~~xx~~ was feeding and cajoling her concurrently. They also had various intra-species problems, mainly demonstrating annoyance when Sissy would rush about the tank at her high speed. My hunch is that the tank's dominance-ordering was "unnatural," and had Mother not been constrained by her crook, she might have quelled or controlled this behavior as the senior member of the tank.

T.H.N.

[submitted in triplicate]

Semi-Monthly 15 December 1962

To: John C. Lilly From: Theodor H. Nelson

During the period covered I read R.N. Hill's Window in the Sea and looked through the cetacean section of Winge's Interrelationships of the Mammalian Genera. In the blue book of reprints, v. ii, I read Scholander and Schevill, "Counter-Current Vascular Heat Exchange..." In the Norsk Hvalfangst-Tidende, I read King, "Some of the Aquatic Modifications of Seals;" Nishiwaki, "Aerial Photographs Show Sperm Whales' Interesting Habits;" and Schevill, "Cetacea."

I have also made tentative inquiries about types of electric trucks, in the hope that something might be available on lease which could be used as a chassis for a Delphinomobile (Dolf-Kart.) So far nothing looks particularly suitable. However, the problem of the control rig is clearly more important, and I expect to submit suggestions on this soon.

I have continued to feed the animals Mother and Baby. Since Sissy's departure last week, Mother and Baby have been alone in the pool, and I find them considerably more accessible. However, I really do not feel I have established any extraordinary rapport with them. (They seem less interested in being petted than they were before Thanksgiving.) Once Baby retrieved the basketball for me seven times in a row on oral command (plus gesture,) but as usual I sensed that it really was done on inner provocation rather than outside stimulus.

T.H.N.

Semi-Monthly Report 31 December 1962

To: John C. Lilly From: Theodor H. Nelson

During the period covered I began my inspection of the Institute's film library, screening some 2500 feet of film. I have not yet cleaned the films, as I'm checking on the best way to do so.

The condition of the originals is from excellent to poor. Besides their all needing cleaning, some of the films -- apparently originals-- have been considerably scratched either in projectors or an action editor. It is possible that this may be partly remedied by treatment with a diffusion compound. I believe that the originals are safe for repeated showings in the Bell and Howell, but that should not defer action on getting duplicates. I will withhold recommendations for the exact strategy of duplication until I have seen all the films, and find out which are originals.

I also continued feeding Mother and Baby, and as of yesterday began spending an hour a day in the pool with them, in the company of Mark Bolten. I certainly hope that it is possible to develop a toleration for the water's coldness.

In addition, I helped Dr. Schiller with his learning experiment and listened to some of your discussions of the dolphin brain with Dr. Morgane.

Semi-Monthly Report 15 January 1963

To: John C. Lilly From: Theodor H. Nelson

During the period covered I was relieved of supervision of Mother and Baby, and devoted most of my time to film work. I finished screening nearly all the movies (except those reels not in Miami,) with only a few hundred feet yet to see.

I have begun the rationalization of film storage and bookkeeping. I spliced most of the small rolls together, fourteen remaining, and have begun logging them into a Flexoline index (by major sequence only, not by individual shots.) Twelve reels have been so logged, nineteen remain. All reels are now numbered for quick identification , and also in order that sequences can be moved around without constant re-labelling.

In my last report I claimed erroneously that the Filmosound Specialist (there referred to as the Bell and Howell) would not scratch the originals. I have found this to be false, having now observed scratch-patterns on the non-emulsion side of some sections which could only have occurred, in my opinion, on the sound-reader flywheel. The action editor seems to be safe, however. I have not yet checked out the other Bell and Howell.

In addition, in order to maintain contact with the animals, I went swimming with Mother and Baby for an hour five or six times.

Semi-Monthly Report 1 February 1963

To: John C. Lilly From: Theodor H. Nelson

During the period covered much of my time was spent writing a tentative film script, Man and Dolphin, which I finished and sent to you.

I added a few items to the main film of dolphin 'selects' and sent them off for duplication.

I spent a considerable amount of time in the formalities of requisitioning, attempting to put together a proper editing facility with the equipment that you okayed. However, I have now (4 Feb.) learned from Monty Young that because of the condition of the budget the requisitions cannot go through. I believe this requires your attention.

I shot, and have seen returned, some 12500 feet of color film. The first couple hundred will have to be written off as "learning to use the Bolex," but the latter sequences-- particularly one of Mark Bolten feeding Mother and Baby from with the pool-- are very satisfying. In addition, employing the Bolex as a still camera, I took a couple of hundred pictures in color of Chuck Severn's dissections, while he directed me.

I also went swimming with Mother and Baby four times. I fed them several times, and fed Cheechee once.

Semi-Monthly Report
To: John C. Lilly

15 Feb 1963
From: Theodor H. Nelson

During the period covered I drew, in India ink, a large prospective ~~xxxx~~ collophon for the Institute: the letters "CRI," in which the first letter is a dolphin, the second a brain, and the third a schematic of communication exchange between two units.

I fed Mother and Baby twice, once from inside the pool, and swam with them on another occasion. I made a two-hour observation of Baby while he was in the circular pool. I also took movies commemorating his day in the circular pool, as well as of his biopsy the day before.

I sent out several dozen requests for product information amd film laboratory prices.

I also wrote a much longer version of our information bulletin on the difference between dolphins and porpoises, including material on Linnaean naming, systematics, evolution and ecology. It is currently too long but will be smallified.

Semi-Monthly Report
To: John C. Lilly

15 Feb 1959
From: Theodor H. Heinon

During the period covered I drew, in India ink, a large prospective suite collection for the Institute: the letters "Cetl," in which the first letter is a dolphin, the second a brain, and the third a schematic of communication exchange between two units.

I fed Mother and Baby twice, once from inside the pool, and twice with them on another occasion. I made a two-hour observation of Baby while he was in the circular pool. I also took movies commencing this day in the circular pool, as well as of his biopsy the day before.

I sent out several dozen requests for product information and flea laboratory prices.

I also wrote a much longer version of our information bulletin on the difference between dolphins and porpoises, including material on Lilanaean naming, systematics, evolution and ecology. It is currently too long but will be simplified.

Semi-Monthly Report
To: John C. Lilly

28 Feb 1963
From: Theodor H. Nelson

During the period covered I fed Mother and Baby four times (including once in the pool,) spent two half-hour observation sessions with them, and had seven play sessions with them.

Owing to a week's fiberglas-grinding in our shop, and the almost constant presence of ground glass in the air, and sbbse-quently because of three days' continual sandblasting between the hangars, I left the films pretty much alone during this ~~im~~ time. I must point out that this in-house fiberglas work is quite incompatible with film and photographic work. This should be taken into account when both films and new tanks are planned.

I am trying to work out a master code system for cataloguing the films: one which will express (preferably by a short string of characters) the date and contents, quality, and other features of given bits of film. ~~Xxxx~~ Each film would have a unique string, or "number." "Cataloguing" the films would consist of listing the films by number with additional comments.

Of course, deciding what other features shall go into the system is the bothersome part. ~~Sox~~ it shall not be too troublesome over future years, I want to arrange it so that its detailed application is optional. In some cases, though, it would be nice if it could narrow down to individual shots and parts of shots. Morevoer, ~~thxxsystem~~ I want the system also to cope with the various copies and part-copies that from time to time come into existence. Making it amenable to the considerable 'juggling' that must go into the making ~~fxxfxproject~~ of protection copies, work-prints, final checkerboards~~xx~~ of originals, etc., is the hardest part. When the system is worked out I will begin preparing a loose-leaf index of all our films. This, when finished, can be permanent, with the Flexoline index used only to keep track of their locations.

In the lulls of grinding I was able to start re-sorting our films onto cores, which will eventually make the current Flexoline methods (invented when we had ~~xx~~ to keep moving films around to get empty reels) unnecessary.

Semi-Monthly Report
To: John C. Lilly

28 Feb 1955
From: Theodor H. Nelson

Semi-Monthly Report 15 March 1963

To: John C. Lilly From: Theodor H. Nelson

During the period covered I spent more than half a day helping Chuck Severn polish his paper on sleep.

I spent several hours poring through literature on photographic products and methods.

I read about fifty pages in Slijper, Whales.

I began editing the black-and-white workprint for "Man and Dolphin." Of course, this can only progress for selected scenes that are already workprinted. The major cataloguing of the library will be the next main step, which in turn will permit editing for dupes. It is my feeling that (unless special funds appear) we should have timed protection prints made of about 1/3 the collection, and B&W workprints made of that third and perhaps 1/5 more.

I also took about 150' of movies of Mother and Baby. (I neglected to mention some four hundred feet taken in the latter half of March.)

I finally got xx straightened out with you on the films to be shown regularly, and set them up for showing.

I drafted a letter to Larry Kuble for your signature, on possible sources of funds to duplicate films.

I also spent two half-hour sessions observing Mother and Baby, and fed them once. I spent six play sessions with them, joining them in the pool for four of these.

Semi-Monthly Report 15 April 1963

To: John C. Lilly From: Theodor H. Nelson

During the pdriod covered I continued putting films in order. Owing to lack of hard data, except in the "this comes before that" form, I had to spend a day or two re-sequencing the recent films from St. Htomas.

I also photographed the first day's unsuccessful dolphin hunting. On this and the next day, when I shot the new animals being unloaded, I expended some 800 feet of film.

I once again revised "The Dolphin, tThe Porpoise, and the Whale"-- successor to "The Difference between Dolphins and Por-Rpoises"-- and handed it in for approval.

I spent one session in the pool with Typee and Pequot, and made one half-hour observation of them. On the arrival of Cookie and AT'da, I spent one petting session with the whole group, and one session in the lpool.

Semi-Monthly Report 31 March 1963

To: John C. Lilly From: Theodor H. Nelson

During this period I continued ordering and re-spooling the films, labeling the leader and making notes on what we have.

I also shot some 70ø feet of film of Miss Lockhart with Mother and Baby, intending to capture competitive episodes and activity; with moderate success.

I also spent five sessions in the pool with Mother and Baby, as well as two play periods and two observation periods at poolside.

I also produced a revised draft of the solicitation letter, "An Invitation to Membership in Communication Research Institute," to whose present version I take exception. I find it condescending, pushy and implausible. The rest of the scientific staff at the Lab concurs.

I also read some 75 more pages in Slijper, Whales.

Semi-Monthly Report 30 April 1963

To: John C. Lilly From: Theodor H. Nelson

During the period covered I went on a fact-finding tour for Dr. Morgane, looking for the best buys in enlargers and darkroom equipment. I looked into most of the downtown camera stores. I believe this enabled me to find savings of some 15% under our usual supplier, on the projected outlay.

I also visited Camera Equipment Co., in Hialeah, and established cordial relations with Glen Teal, the manager. They are the area's chief suppliers of professional film equipment on piecemeal rental. I learned quite a bit from him about equipment and techniques.

Messrs. Holland and Young,
With I spent over an hour on the boat of Mr. Richard Borden, discussing our film, "Man and Dolphin." The script (January draft) was left with Borden.

I rented a multi-gang synchronizer for five days, and used it for measuring and comparing films. I measured several thousand feet of movies, dividing them grossly into scenes, and logging the beginning footage of each scene down to the frame. I did this for the St. Thomas footage I have been calling "People and Dolphins," and for the miscellaneous footage I have been calling "Dolphin Selects." Three days were taken up merely comparing the two versions of "Dolphin Selects," establishing quantitatively which parts were the same and which different. (It is this sort of problem which causes me to proceed with such caution in editing now: I do not want to do any editing until precautions are well in hand to prevent films from getting mixed up this way-- without collateral records as a guide-- in the future.)

The result of this work is a rough typed list of the contents of the reels. I have yet to perform the subtractions that will give scene lengths. (To my surprise, I found that the synchronizer would skip a frame on one of the films or the other, roughly every 250 feet. Hence, on the measurements, we will have to tolerate an inaccuracy of .01%.)

I also assigned numbers to several reels. I have now a system for numbering lengths of film, instead of giving them misleading names. Some of these identifications are tentative pending establishment of exact date, etc. This work is collateral with the cataloguing of the films. After the cataloguing is done these numbers will probably need revision.

I also swam with all the animals, once in each pool.

Semi-Monthly Report 30 April 1963

To: John G. Lilly From: Theodor S. Nelson

During the period covered I went on a fact-finding tour for Dr. Morgens, looking for the best buys in enlargers and darkroom equipment. I looked into most of the downtown camera stores. I believe this enabled me to find savings of some 15% under our usual supplier, on the projected outlay.

I also visited Camera Equipment Co., in Niagara, and established cordial relations with Miss Noel, the manager. They are the area's chief suppliers of panoramic professional film equipment on piecemeal rental. I learned quite a bit from him about equipment and techniques.

Messrs. Holland and Young,

With xxxxxxxxxx I spent over an hour on the boat of Mr. Richard Borden, discussing our film, "Sam and Dolphin." The script (January draft) was left with Borden.

I rented a multi-gang synchronizer for five days, and used it for measuring and comparing films. I measured several thousand feet of movies, dividing them grossly into scenes, and logging the beginning footage of each scene down to the frame. I did this for the St. Thomas footage I have been calling "People and Dolphins," and for the miscellaneous footage I have been calling "Dolphin Helpers." Three days were taken up merely comparing the two versions of "Dolphin Helpers," establishing quantitatively which parts were the same and which different. (It is this sort of problem which causes me to proceed with such caution in editing now: I do not want to do any editing until presentations are well in hand to prevent films from getting mixed up this way-- without collateral records as a guide-- in the future.)

The result of this work is a rough typed list of the contents of the reels. I have yet to perform the subtractions that will give scene lengths. (To my surprise, I found that the synchronizer would _not_ give a figure accurate on one of the films or the other, roughly every 250 feet. Hence, on the measurements, we will have to tolerate an inaccuracy of .01%.)

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Semi-Monthly Report 15 May, 1963

To: J.C. Lilly From: T.H. Nelson

During the period covered:

I spliced together about a dozen rolls from St. Thomas, making preliminary notes on them, and re-ordered them according to their probable chronology. I then sent the films to St. Thomas with a long critique.

I began preparing a detailed proposal of storage and handling methods and duplication strategy that (in my opinion) will make our 16mm footage into a useful, protected and well-organized film library. This will be submitted shortly, on completion.

I read and filed all the circulars for photographic products and services that had been piling up for the last couple of months. We are now much better informed than formerly.

I also verified, as usual, a set of prints returned from the lab. They were numbered in error. I confirmed the lab's eagerness to set this right, and sent the films back for re-numbering; all of which took a lot of time.

Semi-Monthly Report 31 May 1963

To: ~~x~~ J.C. Lilly From: T/H/ Nelson

During the period covered~~M~~:

I conferred with Frank Essapian on the film "Dolphin Sexual Behavior," and began editing it for him.

I photographed some four hundred feet of film-- to become the end of "Man and Dolphin," as in my original script. Thanks to the cooperation of Ginger Nadell, an accompanying tape exists which should synchronize nicely with all the events on the oscilloscope.

I also read thirty pages in Slijper, Whales.

I also read K/H. Pribram, "A Review of Theory in Physiological Psychology," and Steegman, "Dr. Harlow's Famous Case: the 'Imp ossible' Accident of Phineas P. Gage."

And, finally, I packed the whole photography department (save the darkroom equipment, as I was locked out of the North side) for transport to the new building.

(Original - Forgot to make 4th carbon.)

Semi-Monthly Report

15 June 1963

To: J.C. ~~Xxxxx~~ Lilly

From: T. H. Nelson

During this period I was away on vacation.

Semi-Monthly Report

15 June 1965

To: J.O. Kekkm Lilly

From: T. E. Nelson

During this period I was away on vacation.

Semi-Monthly Rep ort 30 June 1963

To: J.C. Lilly From: T. H. Nelson

I was absent from the Institute until the 27th of June. This was in part a planned extension of my vacation and in part beyond my control.

On my return, I set about fixing up the bank vault.

Semi-Monthly Report 15 July 1963

To: J.C. Lilly From: T.H. Nelson

During the period covered:

I finished fixing up the old bank vault upstairs as a photography store-room, editing facility, and (for certain uses) studio. This process took over two weeks, during which time I removed parts of an old pneumatic alarm system, removed load after load of concrete dust, painted walls, ceiling, floor and shelving, and made various arrangements about shelves, electricity and ventilation.

I unpacked all the photographic equipment.

I conferred with Messrs. Morgane, Young and Duff, as well as an outside camera-store man, on the new darkroom; and designed it.

During periods that other operations could not be continued because of paint, etc., I read twenty more pages in Slijper, Whales, the long article "Evolution," and part of the article "Brain" in the Encyclopedia Britannica; Haldane, "The Theory of Evolution, Before and After Bateson;" and Stafford Beer, "Below the Twilight Arch: A Mythology of Systems," on Cybernetics.

Semi-Monthly Report 1 August 1963

To: J.C. Lilly From: T.H. Nelson

During the period covered I was at last permitted to get to work editing "Dolphin Sexual Behavior," and got this properly underway.

Semi-Monthly Report 15 August 1963

To: J.C. Lilly From: T.H. Nelson

During the period covered I finished editing the film "Mating Behavior of Tursiops Truncatus" (formerly "Dolphin Sexual Behavior.") Because of the countless hangups and delays that had presented themselves in the months since I undertook this, it was necessary to work straight through the evening and night twice last week. Counting the efforts of my girl friend, but not counting time out for meals, I provided some 117 man-hours of work during the terminal week of production. Something is wrong with that.

Since then I have been compiling materials for Man and Dolphin.

CRI: Semi-Monthly Reports

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